

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) An apparatus for etching a glass substrate, comprising:
an etching bath containing an etchant;
a holder for supporting said glass substrate in the etching bath; and
an ultrasonic oscillator generating ultrasonic vibration on a surface of said substrate;
wherein the ultrasonic oscillator is located in the interior of the etching bath.
2. (Original) The apparatus for etching a glass substrate of Claim 1, wherein said etchant comprises hydrofluoric acid.
3. (Original) The apparatus for etching a glass substrate of Claim 1, wherein said holder comprises acid-resistant material.
4. (Original) The apparatus for etching a glass substrate of Claim 3, wherein said acid-resistant material comprises polytetrafluoroethylene.
5. (Original) The apparatus for etching a glass substrate of Claim 1, further comprising a thermometer for measuring the temperature of the etchant.

6. (Original) The apparatus for etching a glass substrate of Claim 1, further comprising a thermostat for signaling a specific temperature rise of said etchant.

7. (Original) The apparatus for etching a glass substrate of Claim 1, wherein said holder supports a plurality of glass substrates.

Claims 8 and 9 (Canceled).

10. (Original) The apparatus for etching a glass substrate of Claim 1, wherein said holder is located in an interior of said etching bath.

11. (Currently Amended) An apparatus for etching a glass substrate, comprising:
an etching bath filled with an etchant;
a holder for supporting said glass substrate in the etching bath;
an ultrasonic oscillator generating ultrasonic vibration on a surface of said substrate, the ultrasonic oscillator completely surrounding the interior of the etching bath; and
a temperature sensor installed in said etching bath.

12. (Original) The apparatus for etching a glass substrate of Claim 11, further comprising a control unit for receiving a temperature indicating signal from said temperature sensor and generating an etching termination signal when the temperature signal indicates an etching termination temperature.

13. (Original) The apparatus for etching a glass substrate of Claim 12, wherein said control unit determines said etching termination temperature from said temperature indicating signal.

14. (Original) The apparatus for etching a glass substrate of Claim 11, wherein said etchant comprises hydrofluoric acid.

15. (Original) The apparatus for etching a glass substrate of Claim 11, wherein said holder comprises acid-resistant material.

16. (Original) The apparatus for etching a glass substrate of Claim 15, wherein said acid-resistant material comprises polytetrafluoroethylene.

17. (Original) The apparatus for etching a glass substrate of Claim 11, wherein said holder contains a plurality of glass substrates.

Claims 18 and 19 (Canceled).

20. (Original) The apparatus for etching a glass substrate of Claim 11, wherein said holder is located in an interior of said etching bath.

21. (Original) The apparatus for etching a glass substrate of Claim 11, further comprising an indicator for displaying the temperature monitored by said temperature sensor.